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administrador@LAB-DACC-04:~$ sudo adduser willencd
[sudo] senha para administrador:
Adicionando o usuário 'willencd' ...
Adicionando novo grupo 'willencd' (1003) ...
Adicionando novo usuário 'willencd' (1002) ao grupo 'willencd' ...
Criando diretório pessoal '/home/willencd' ...
Copiando arquivos de '/etc/skel' ...
Nova senha:
Redigite a nova senha:
passwd: senha atualizada com sucesso
Modificando as informações de usuário para willencd
Informe o novo valor ou pressione ENTER para aceitar o padrão
  Nome Completo []: Willen Duarte
  Número da Sala []:
  Fone de Trabalho []:
  Fone Residencial []:
  Outro []:
A informação está correta? [S/n] S
administrador@LAB-DACC-04:~$ tail -5 /etc/passwd
aluno::1001:1001:Aluno,,,:/home/aluno:/bin/bash
lightdm:x:128:135:Light Display Manager:/var/lib/lightdm:/bin/false
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
nvidia-persistenced:x:127:134:NVIDIA Persistence Daemon,,,:/nonexistent:/usr/sbin/nologin
willencd:x:1002:1003:Willen Duarte,,,:/home/willencd:/bin/bash
administrador@LAB-DACC-04:~$ head -1 /etc/passwd
root:x:0:0:root:/root:/bin/bash
administrador@LAB-DACC-04:~$ cat /etc/passwd | grep "mail|www-data|syslog|sshd"
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
administrador@LAB-DACC-04:~$ cat /etc/passwd | wc -l
wc: opção inválida -- "1"
Tente "wc --help" para mais informações.
administrador@LAB-DACC-04:~$ cat /etc/passwd | wc -l
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administrador@LAB-DACC-04:~$ cat /etc/passwd | cut -f1 d: | sort | tr "\n" " " ; echo
cut: 'd:': Arquivo ou diretório inexistente

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administrador@LAB-DACC-04:~$ cat /etc/passwd | cut -f1 -d: | sort | tr "\n" " " ; echo
administrador aluno _apt avahi avahi-autoipd backup bin colord cups-pk-helper daemon
dnsmasq games gdm geoclue gnats gnome-initial-setup hplip irc kernoops lightdm list lp
mail man messagebus news nm-openvpn nobody nvidia-persistenced proxy pulse root rtkit
saned speech-dispatcher sshd sssd sync sys syslog systemd-coredump systemd-network
systemd-resolve systemd-timesync tcpdump tss usbmux uucp uidd whoopsie willencd
www-data
administrador@LAB-DACC-04:~$ cat /etc/passwd | grep "willencd"
willencd:x:1002:1003:Willen Duarte,,,:/home/willencd:/bin/bash
administrador@LAB-DACC-04:~$ cat /etc/shadow
cat: /etc/shadow: Permissão negada
administrador@LAB-DACC-04:~$ sudo cat /etc/shadow
root:$6$fyU9Rw3N.LqItk0n$rjIAFkz9RkC7fA.S9E3oQAujB/W9Xgv9fOyPTV0rADqNc.oRjh7dtGj
R20MikCpyrvS6t0/UGj14P60yg2GOI0:19087:0:99999:7:::
daemon*:19046:0:99999:7:::
bin*:19046:0:99999:7:::
sys*:19046:0:99999:7:::
sync*:19046:0:99999:7:::
games*:19046:0:99999:7:::
man*:19046:0:99999:7:::

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lp*:19046:0:99999:7::
mail*:19046:0:99999:7::
news*:19046:0:99999:7::
uucp*:19046:0:99999:7::
proxy*:19046:0:99999:7::
www-data*:19046:0:99999:7::
backup*:19046:0:99999:7::
list*:19046:0:99999:7::
irc*:19046:0:99999:7::
gnats*:19046:0:99999:7::
nobody*:19046:0:99999:7::
systemd-network*:19046:0:99999:7::
systemd-resolve*:19046:0:99999:7::
systemd-timesync*:19046:0:99999:7::
messagebus*:19046:0:99999:7::
syslog*:19046:0:99999:7::
_apt*:19046:0:99999:7::
tss*:19046:0:99999:7::
uidd*:19046:0:99999:7::
tcpdump*:19046:0:99999:7::
avahi-autoipd*:19046:0:99999:7::
usbmux*:19046:0:99999:7::
rtkit*:19046:0:99999:7::
dnsmasq*:19046:0:99999:7::
cups-pk-helper*:19046:0:99999:7::
speech-dispatcher:!:19046:0:99999:7::
avahi*:19046:0:99999:7::
kernoops*:19046:0:99999:7::
saned*:19046:0:99999:7::
nm-openvpn*:19046:0:99999:7::
hplip*:19046:0:99999:7::
whoopsie*:19046:0:99999:7::
colord*:19046:0:99999:7::
geoclue*:19046:0:99999:7::
pulse*:19046:0:99999:7::
gnome-initial-setup*:19046:0:99999:7::
gdm*:19046:0:99999:7::
sssd*:19046:0:99999:7::
administrador:$6$jvGADAzfv03nfz6U$q8FjNcZsTtvHIINvwFDn.O9jTPnMc7S84uqVv.N0lqelz4
QEYBp0e.JLMDGnM7J5//v0zCKp06B2wP0aalFkx.:19089:0:99999:7::
systemd-coredump:!:19084:0:99999:7::
aluno:$6$2ZSPbLEDCh9c8HFZ$dalZgcC8pKC9xeq39EGqo1YP5DnlCFmP7ZXVysV/20mCIKk/
L0I51aNQuqkWwZg8brRm1vMzNKHWinCt8f7Hz0:19085:0:99999:7::
lightdm*:19085:0:99999:7::
sshd*:19086:0:99999:7::
nvidia-persistenced*:19194:0:99999:7::
willencd:$6$zvFkwFki0zXiBA2j$y.Yv/2VtDD/IL0bmNJtcVxeN9mFMyFBiBRcPs.amYaSd3wDjed
OFXPPbgUl.eDzXScIUfIdzMxURIFw5UmWn2/:19263:0:99999:7::
administrador@LAB-DACC-04:~$ sudo cat /etc/shadow | grep "willencd"
willencd:$6$zvFkwFki0zXiBA2j$y.Yv/2VtDD/IL0bmNJtcVxeN9mFMyFBiBRcPs.amYaSd3wDjed
OFXPPbgUl.eDzXScIUfIdzMxURIFw5UmWn2/:19263:0:99999:7::
administrador@LAB-DACC-04:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-512
--salt=".zvFkwFki0zXiBA2j"

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Comando 'mkpasswd' não encontrado, mas poder ser instalado com:

```
sudo apt install whois
```

```
administrador@LAB-DACC-04:~$ sudo apt install whois
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Lendo listas de pacotes... Pronto  
Construindo árvore de dependências  
Lendo informação de estado... Pronto  
Os seguintes pacotes foram instalados automaticamente e já não são necessários:  
android-libbacktrace android-libf2fs-utils android-libsparse android-libunwind  
android-libutils android-libziparchive  
Utilize 'sudo apt autoremove' para os remover.  
Os NOVOS pacotes a seguir serão instalados:  
whois  
0 pacotes atualizados, 1 pacotes novos instalados, 0 a serem removidos e 69 não  
atualizados.  
É preciso baixar 44,7 kB de arquivos.  
Depois desta operação, 279 kB adicionais de espaço em disco serão usados.  
Obter:1 [http://archive.ubuntu.com/ubuntu focal/main amd64 whois amd64 5.5.6 \[44,7 kB\]](http://archive.ubuntu.com/ubuntu focal/main amd64 whois amd64 5.5.6 [44,7 kB])  
Baixados 44,7 kB em 1s (63,9 kB/s)  
A seleccionar pacote anteriormente não seleccionado whois.  
(Lendo banco de dados ... 349687 ficheiros e directórios actualmente instalados.)  
A preparar para desempacotar .../archives/whois\_5.5.6\_amd64.deb ...  
A descompactar whois (5.5.6) ...  
Configurando whois (5.5.6) ...  
A processar 'triggers' para man-db (2.9.1-1) ...  
administrador@LAB-DACC-04:~\$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-512  
--salt="zvFkwFki0zXiBA2j"  
Tamanho do sal(salt) incorreto: 17 bytes enquanto 8 <= n <= 16 era esperado.  
administrador@LAB-DACC-04:~\$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-512  
--salt="zvFkwFki0zXiBA2j"  
\$6\$zvFkwFki0zXiBA2j\$xA MiD7S6M5S2ZQWolbnaZQuLqul1dijZ7IQFcs4mUje3QruLsEDz5eHT  
sRb6n0kaBz85E3JwaWCuM0HvvfZxK.  
administrador@LAB-DACC-04:~\$ export HISTFILE=/dev/null  
administrador@LAB-DACC-04:~\$ echo -n "silvapereira" | mkpasswd --stdin  
--method=sha-512 --salt="zvFkwFki0zXiBA2j"  
\$6\$zvFkwFki0zXiBA2j\$y.Yv/2VtDD/IL0bmNJtcVxeN9mFM yFBiBRcPs.amYaSd3wDjedOFXPPbg  
Ul.eDzXScIUfIDzMxURIFw5UmWn2/  
administrador@LAB-DACC-04:~\$ echo -n "silvapereira" | mkpasswd --stdin  
--method=sha-512 --salt="2ZSPbLEDCh9c8HFZ"  
\$6\$2ZSPbLEDCh9c8HFZ\$.KgFChEG6OA8.Vpjxu8SCQcvfd/Lf7Z9iEsxv4jkT7M.XWytqjm4BNQ  
9VVREHrIrBTow9NxupuMFE8jPn7wzl1  
administrador@LAB-DACC-04:~\$ cat /etc/group  
root:x:0:  
daemon:x:1:  
bin:x:2:  
sys:x:3:  
adm:x:4:syslog,administrador  
tty:x:5:syslog  
disk:x:6:  
lp:x:7:  
mail:x:8:  
news:x:9:  
uucp:x:10:  
man:x:12:  
proxy:x:13:  
kmem:x:15:  
dialout:x:20:  
fax:x:21:  
voice:x:22:  
cdrom:x:24:administrador  
floppy:x:25:  
tape:x:26:  
sudo:x:27:administrador

audio:x:29:pulse  
dip:x:30:administrador  
www-data:x:33:  
backup:x:34:  
operator:x:37:  
list:x:38:  
irc:x:39:  
src:x:40:  
gnats:x:41:  
shadow:x:42:  
utmp:x:43:  
video:x:44:  
sasI:x:45:  
plugdev:x:46:administrador  
staff:x:50:  
games:x:60:  
users:x:100:  
nogroup:x:65534:  
systemd-journal:x:101:  
systemd-network:x:102:  
systemd-resolve:x:103:  
systemd-timesync:x:104:  
crontab:x:105:  
messagebus:x:106:  
input:x:107:  
kvm:x:108:  
render:x:109:  
syslog:x:110:  
tss:x:111:  
bluetooth:x:112:  
ssl-cert:x:113:  
uidd:x:114:  
tcpdump:x:115:  
avahi-autoipd:x:116:  
rtkit:x:117:  
ssh:x:118:  
netdev:x:119:  
lpadmin:x:120:administrador  
avahi:x:121:  
scanner:x:122:saned  
saned:x:123:  
nm-openvpn:x:124:  
whoopsie:x:125:  
colord:x:126:  
geoclue:x:127:  
pulse:x:128:  
pulse-access:x:129:  
gdm:x:130:  
sssd:x:131:  
lxd:x:132:administrador  
administrador:x:1000:  
sambashare:x:133:administrador  
systemd-coredump:x:999:  
aluno:x:1001:  
lightdm:x:135:  
nopasswdlogin:x:136:  
mount-ntfs:x:1002:aluno,administrador  
vboxusers:x:137:  
nvidia-persistenced:x:134:

```

willncd:x:1003:
administrador@LAB-DACC-04:~$ head -3 /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
administrador@LAB-DACC-04:~$ cat /etc/group | grep 'willncd'
willncd:x:1003:
administrador@LAB-DACC-04:~$ cat /etc/group | grep '^willncd:'
willncd:x:1003:
administrador@LAB-DACC-04:~$ cat /etc/group | grep '^adm:'
adm:x:4:syslog,administrador
administrador@LAB-DACC-04:~$ sudo addgroup willncd1
Adicionando grupo `willncd1' (GID 1004) ...
Concluído.
administrador@LAB-DACC-04:~$ cat /etc/group | grep '^willncd1:'
willncd1:x:1004:
administrador@LAB-DACC-04:~$ sudo usermode -a -G willncd1 willncd
sudo: usermode: comando não encontrado
administrador@LAB-DACC-04:~$ sudo usermod -a -G willncd1 willncd
administrador@LAB-DACC-04:~$ cat /etc/group | grep '^willncd1:'
willncd1:x:1004:willncd
administrador@LAB-DACC-04:~$ groups willncd
willncd : willncd willncd1
administrador@LAB-DACC-04:~$ id
uid=1000(administrador) gid=1000(administrador)
grupos=1000(administrador),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin)
,132(lxd),133(sambashare),1002(mount-ntfs)
administrador@LAB-DACC-04:~$ echo '#!/bin/bash' > hellobash.sh
administrador@LAB-DACC-04:~$ echo 'echo "Hello World..." >> hellobash.sh
administrador@LAB-DACC-04:~$ cat hellobash.sh
#!/bin/bash
echo "Hello World..."
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rw-rw-r-- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ ./hellobash.sh
bash: ./hellobash.sh: Permissão negada
administrador@LAB-DACC-04:~$ chmod u+x hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxrw-r-- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod u+x hellobash.sh
administrador@LAB-DACC-04:~$ ./hellobash.sh
Hello World...
administrador@LAB-DACC-04:~$ chmod 700 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwx----- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod 744 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxr--r-- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod 755 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxr-xr-x 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod 766 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxrw-rw- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ id
uid=1000(administrador) gid=1000(administrador)
grupos=1000(administrador),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin)
,132(lxd),133(sambashare),1002(mount-ntfs)
administrador@LAB-DACC-04:~$ echo '#!/bin/bash' > hellobash.sh

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administrador@LAB-DACC-04:~$ echo 'echo "Hello World..." >> hellobash.sh
administrador@LAB-DACC-04:~$ cat hellobash.sh
#!/bin/bash
echo "Hello World..."
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rw-rw-r-- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ ./hellobash.sh
bash: ./hellobash.sh: Permissão negada
administrador@LAB-DACC-04:~$ chmod u+x hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxrw-r-- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod u+x hellobash.sh
administrador@LAB-DACC-04:~$ ./hellobash.sh
Hello World...
administrador@LAB-DACC-04:~$ chmod 700 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwx----- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod 744 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxr--r-- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod 755 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxr-xr-x 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ chmod 766 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxrw-rw- 1 administrador administrador 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ sudo chgrp willncd1 hellobash.sh
administrador@LAB-DACC-04:~$ ls -l hellobash.sh
-rwxrw-rw- 1 administrador willncd1 34 set 28 17:28 hellobash.sh
administrador@LAB-DACC-04:~$ sudo cat /etc/sudoers
#
# This file MUST be edited with the 'visudo' command as root.
#
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
#
# See the man page for details on how to write a sudoers file.
#
Defaults env_reset
Defaults mail_badpass
Defaults secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin"

# Host alias specification

# User alias specification

# Cmnd alias specification

# User privilege specification
root ALL=(ALL:ALL) ALL
aluno ALL=(ALL:ALL) ALL
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL

# Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL

# See sudoers(5) for more information on "#include" directives:

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```
#includedir /etc/sudoers.d
```